

## CLAIMS

1. An ultrasonic diagnostic apparatus,  
including; a plurality of transducer element  
5 arrays joined at any angle; and means for  
displaying images respectively obtained from each  
of said plurality of transducer element arrays,  
wherein said transducer element array is  
configured by arraying a plurality of transducer  
10 elements in a parallel state.

2. The ultrasonic diagnostic apparatus  
according to claim 1, wherein array directions of  
said plurality of transducer element arrays are  
15 arranged so as to be orthogonal.

3. The ultrasonic diagnostic apparatus  
according to claim 1, wherein in said plurality of  
transducer element arrays, two transducer element  
20 arrays are arranged in a T-shaped type.

4. The ultrasonic diagnostic apparatus  
according to claim 1, wherein in said plurality of  
transducer element arrays, two transducer element  
25 arrays are arranged in a cross-shaped type.

5. The ultrasonic diagnostic apparatus according to claim 1, wherein in said plurality of transducer element arrays, three transducer  
5 element arrays are arranged in an H-shaped type.

6. An ultrasonic diagnostic apparatus, characterized by including: a probe for transmitting an ultrasonic wave into a living body  
10 and receiving a reflection wave from an inspection sample inside said living body; an image generator for generating a fault image of said inspection sample in accordance with a signal received by said probe; and an image display for displaying  
15 said fault image,

wherein said probe has a first transducer element array and a second transducer element array which are arranged such that array directions of transducer elements intersect each  
20 other, and

said image generator and said image display generate and display a first fault image corresponding to a signal received by said first transducer element array and a second fault image  
25 corresponding to a signal received by said second

transducer element array.

7. The ultrasonic diagnostic apparatus according to claim 6, wherein said image display  
5 displays a guide line that indicates positions of said first transducer element array and said second transducer element array, together with a fault image of an inspection sample.

10 8. The ultrasonic diagnostic apparatus according to claim 6, wherein said first transducer element array and said second transducer element array are arranged so as not to overlap with each other.

15 9. The ultrasonic diagnostic apparatus according to claim 8, wherein said first transducer element array carries out a linear scanning.

20 10. The ultrasonic diagnostic apparatus according to claim 9, wherein said second transducer element array transmits and receives an ultrasonic wave that travels obliquely to a living  
25 body surface.

11. The ultrasonic diagnostic apparatus  
according to claim 9, wherein said second  
transducer element array carries out a sector  
5 scanning.

12. The ultrasonic diagnostic apparatus  
according to claim 8, wherein a width of said  
first transducer element array is adjusted so as  
10 to be small in a portion close to said second  
transducer element array.

13. The ultrasonic diagnostic apparatus  
according to claim 6, wherein an inspection sample  
15 is an atheroma existing inside a blood vessel.